

Modular Trough-Powered Electric Systems

Third Annual Parabolic Trough Workshop

June 18, 2000

Duke Solar Energy LLC Randy Gee

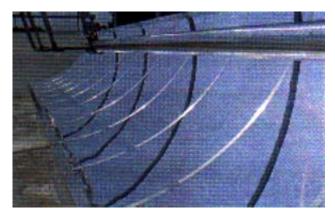


Troughs Have Commercial Status

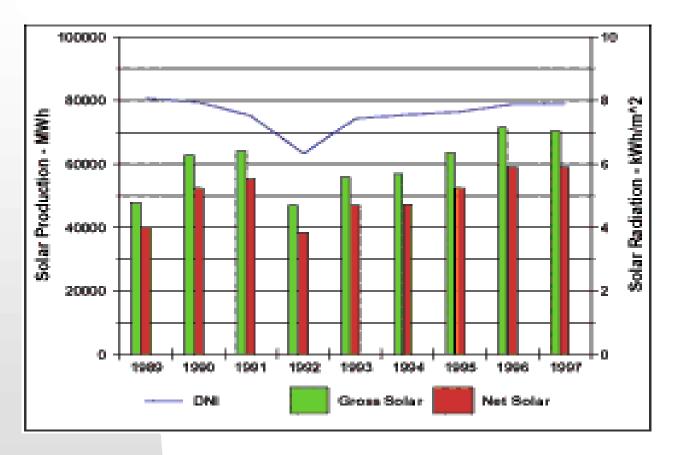








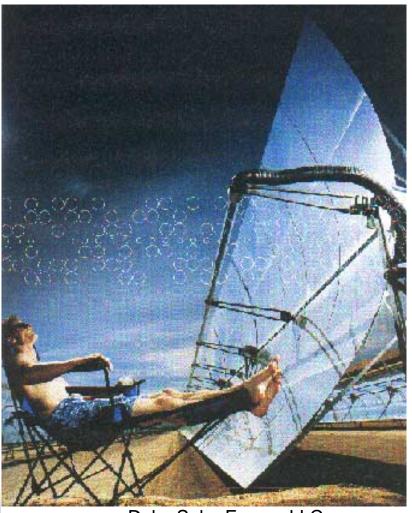
Troughs are Reliable, Proven, and Performance Is High



Duke



Except for One System....



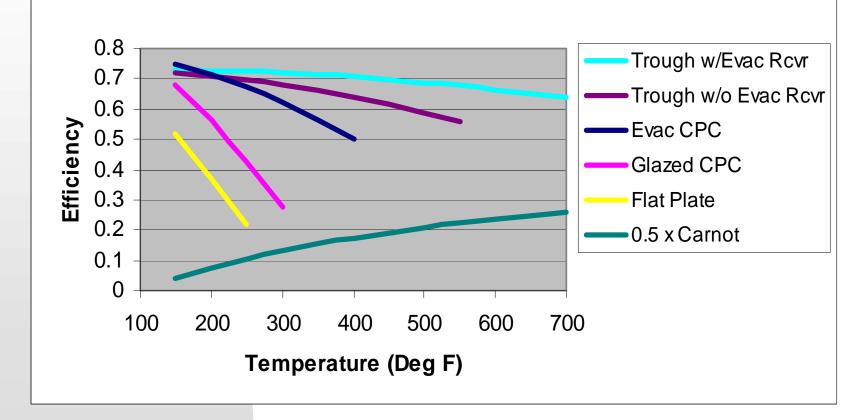
Duke Solar Energy LLC



Solar-Driven Heat Engines

Temperature vs. Efficiencies

Peak Collector Efficiencies Shown
Tlow =100 F for Carnot Effic. Shown





Solar-Driven Heat Engines Product of Collection Efficiency and Heat Engine Efficiency Heat Engine Cycle Efficiency = .5 x Carnot

